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APPLICATION NO.	٤	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/718,101		11/18/2003	Jack Y. Peng	27140.010	9904	
21907	7590	03/02/2005		EXAM	EXAMINER	
ROZSA & CHEN				JENKINS. DANIEL J		
15910 VENTURA BOULEVARD SUITE 1601				ART UNIT	ART UNIT PAPER NUMBER	
ENCINO, CA 91436				1742		

DATE MAILED: 03/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			/,			
	Application No.	Applicant(s)	1			
	10/718,101	PENG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Daniel J. Jenkins	1742				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	ne correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply by the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS e, cause the application to become ABAND	be timely filed days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 h	lovember 2003.					
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.					
3) Since this application is in condition for allowa	nce this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11	, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-18</u> is/are pending in the application	1.					
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) acc						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached Of	ice Action or form PTO-152.				
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority	ts have been received. Is have been received in Applic	cation No				
application from the International Burea	` ` '/'					
* See the attached detailed Office action for a list	of the certified copies not rece	eived.				
Attachment(s)						
) Notice of References Cited (PTO-892)	4) Interview Summ					
(c) Notice of Draftsperson's Patent Drawing Review (PTO-948) (d) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Ma 5) Notice of Inform	il Date al Patent Application (PTO-152)				
Paper No(s)/Mail Date <u>11/18/03</u> .	6) Other:	· · · · · · · · · · · · · · · · · · ·				

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto et al. US Pat. No. 5,006,289 (Yamamoto et al.).

Yamamoto et al. discloses the invention substantially as claimed. Yamamoto et al. discloses a method of making a composite sheet comprising:

providing a powder mixture;

filling the powder mixture into a metal sheath;

compacting the filled sheath (see embodiment of Fig. 1(g);

rolling the filled sheet to form a composite sheet.

Yamamoto et al. further discloses wherein the powder mixture is selected from a group comprising a metal powder selected from a group comprising Co and a ceramic powder selected from a second group comprising WC.

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Yamamoto et al. further discloses wherein the sheath is comprises a material selected from a group comprising Cu.

Yamamoto et al. further discloses wherein the powder mixture is formed of micron scale particles (see Example 2, first paragraph), one of ordinary skill in the art selecting the appropriate range of particles, including wherein the metal powder passes through a 100 mesh sieze (particle size of less than 149 um).

Yamamoto et al. further discloses wherein the ceramic powder group further comprises aluminum oxide.

Yamamoto et al. furhter dicloses examples wherein the amount of metal particles falls into the range as claimed by Appliccant (see for example Yamamoto et al. Example 2 wherein the amount of Co is 20%).

Yamamoto et al. further discloses wherein the metal powder is selected from a group further comprising alloys (col. 3, lines 37-40).

Yamamoto et al. further discloses wherein the compacting is performed at a temperture below the sintering temperature of the powder mixture.

Yamamoto et al. further discloses examples wherein the compacting is performed under vacuum, which is an equivalent of an inert gas heating environment, one of ordinary skill in the art performing the heating in an air environment in embodiments wherein the

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sheath is removed in order to reduce costs in a situation wherein the contamination of the sheath is not critical to the process.

Yamamotot et al. is silent as to the density of the composite sheet during processing, referring to reduction in size as the process parameter. One of ordinary skill determining the density of the formed product during process conditions in order to arrive at a substantially dense composite sheet in order to form a sheet of maximum strength.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Jenkins whose telephone number is 571-272-1242. The examiner can normally be reached on M-TH6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1242. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel J. Jenkins Primary Examiner Art Unit 1742 Page 5

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